

Multi

OUT61999

P 180024Z MAY 67

1967 MAY 18 02 03Z

FM NPIC WASHDC

TO AIG NINE SEVEN FIVE

BT

S E C R E T CITE NPIC 0664

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF
AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-960, DATED 16 MAY 67.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE

(TEXT AS FOLLOWS IDENTICAL TO OUT 61999)

S E C R E T

END OF MESSAGE

DISTRIBUTION <i>2</i>		
Cy No.	Office	Action
<i>1</i>	~~File~~	
<i>2</i>	OS	
	SEC BR	
	TDS	
	CSD	
	IPD	
	PD	
	PSD	
	PSD-ICB	
	TID	
	IAD	
<i>3</i>	PAG	
	DIAXX-4	
	SPAD	
	NSA-LO	
	DIA-AP	

25X1

Advance copy
Sanitized

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION -960, DATED 16 MAY 67.

THE NUMBER AT THE RIGHT MARGIN OF THE HEADLINE IS THE COMOR TARGET NUMBER.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS--

C @CLEAR#, SC @SCATTERED CLOUD COVER#, HC @HEAVY CLOUD COVER#, H @HAZE#, CS @CLOUD SHADOW#, SD @SEMI-DARKNESS#, GC @GROUND COVER#, CF @CAMOUFLAGE#, O @OBLIQUITY#, AND GR @GROUND RESOLUTION#.

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G @GOOD#, F @FAIR#, OR P @POOR#. THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T @TOTAL# OR PT @PARTIAL#. THE MODE OF COVERAGE IS SIGNIFIED BY ST @STEREO#, NS @NONSTEREO#, OR PS @PARTIAL STEREO#.

AAA DEFENSES ARE DIVIDED INTO FOUR BASIC CATEGORIES -- LIGHT @21-75 MM#, MEDIUM @76-100 MM#, HEAVY @OVER 100 MM#, AND AUTOMATIC WEAPONS @ZPU-1, ZPU-2, AND ZPU-4#. IF THE CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED @EXAMPLE -- 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED#.

MISSILES

CAMPO, FLORIDO SAM SITE A07-2 CU 2309N 08202W

OB -- 3 EMPLACED PROBABLE LAUNCHERS, 4 PROBABLE MISSILE TRANSPORTERS, AND AN OCCUPIED GUIDANCE AREA OBSERVED IN CLOUD-FREE AREAS.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

EL CANO SAM SITE CU 2303N 08229W

PERMANENT SITE REMAINS UNDER CONSTRUCTION.

OB @AT ADJACENT TEMPORARY SITE# -- 6 EMPLACED LAUNCHERS @5 CANVAS COVERED#, 5 ADDITIONAL LAUNCHERS, AT LEAST 3 MISSILE TRANSPORTERS, 1 TOKEN-TYPE RADAR, AND AT LEAST 45 VEHICLES/PIECES OF EQUIPMENT.

ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

GUARA SAM SITE A29-2 CU 2248N 08213W

OB -- 6 EMPLACED LAUNCHERS @4 WITH MISSILES#, 11 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 5 ASSOCIATED VAN TRAILERS, AN ACQUISITION RADAR, 3 OTHER VAN TRAILERS, AND 28 OTHER VEHICLES.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA CACHIMBA SAM SITE A12-2 CU 2245N 08227W

OB -- 6 EMPLACED LAUNCHERS, AT LEAST 6 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 5 ASSOCIATED VAN TRAILERS, AND AT LEAST 23 UNIDENTIFIED VEHICLES.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA SALUD SAM SITE A04-2 CU 2253N 08224W

OB -- 2 EMPLACED LAUNCHERS, 4 MISSILE TRANSPORTERS, AN ACQUISITION RADAR, AND 27 OTHER VEHICLES.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

MAJANA SAM SITE 2 A27-A2 CU 2241N 08249W

OB -- 6 OCCUPIED EMPLACED LAUNCHERS @3 WITH MISSILES#, 10 MISSILE TRANSPORTERS, A FAN SONG RADAR, AND APPROXIMATELY 15 UNIDENTIFIED VEHICLES.

NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

MARIEU SAM SITE 2 A30-2 CU 2300N 08248W

OB -- 6 EMPLACED LAUNCHERS, 7 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH 6 ASSOCIATED VAN TRAILERS, AND AT LEAST

25X1

PUNTA BRAVA SAM SITE A30-2 CU 2301N 08231W
OB -- 6 EMPLACED LAUNCHERS 03 WITH MISSILES, 10
MISSILE TRANSPORTERS, AN OCCUPIED CENTRAL GUIDANCE AREA
WITH 5 VANS, 3 VAN TRAILERS, 4 TRUCK TRACTORS, AND 1
OTHER VEHICLE.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

TORRENS SAM ASSEMBLY AREA CU 2257N 08227W
OB -- 15 PROBABLE MISSILE TRANSPORTERS, 5 MISSILE
CANISTER TRANSPORTERS, 13 TANKS/SP GUNS, 36 OTHER
VEHICLES, AND NUMEROUS MISSILE CANISTERS.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTA CRUZ DEL NORTE CRUISE-MISSILE SITE CU 2309N 08156W
SITE REMAINS ABANDONED.
ACTIVITY -- 5 VAN TRUCKS AND 3 VAN TRAILERS.

25X1

SAN JOSE DE LAS LAJAS CRUISE-MSL STORAGE CU 2255N 08210W
AREA CONTAINS NUMEROUS VEHICLES AND CRATES. GROUND
RESOLUTION LIMITS INTERPRETATION.
NO APPARENT CHANGE IN FACILITIES.

25X1

GUANABO CRUISE-MISSILE SITE CU 2309N 08203W
SITE REMAINS ABANDONED.

25X1

AIR FACILITIES

SIGUANEA AIRFIELD CU 2138N 08257W
OB -- NONE OBSERVED.

25X1

CORONEL PASCUAL AIRFIELD CU 2327N 08117W
OB -- NONE OBSERVED IN CLOUD-FREE AREAS.

25X1

SAN ANTONIO DE LOS BAÑOS AIRFIELD CU 2252N 08230W
OB -- 19 FISHBED, 3 FARMER, 3 FAGOT/FRESCO, AND 1 HOUND
OBSERVED IN CLOUD-FREE AREAS.

25X1

SAN JULIAN AIRFIELD CU 2205N 08409W
OB -- 1 CRATE, 4 LIAISON, 6 PROBABLE ZLIN TRENER, AND 1
HOUND.

25X1

JOSE MARTI INTERNATIONAL AIRFIELD CU 2259N 08224W
OB -- 2 FISHBED, 1 CLEAT, 2 PROBABLE COOT, 2 COKE, 14
CRATE, 5 C-46, 2 C-47, 4 MORAVA 1-200, AND 1 COLT.

25X1

CAMPO LIBERTAD AIRFIELD CU 2305N 08226W
OB -- 7 COLT, 1 ZLIN TRENER, AND AT LEAST 21 PROBABLE
HOUND.

25X1

PLAYA BARACOA AIRFIELD CU 2302N 08234W
OB -- 1 COKE, 2 COLT, AND 1 SMALL STRAIGHT-WING.
ACTIVITY -- 18 COLT CRATES AND 24 OTHER SHIPPING
CRATES.

25X1

NAVAL ACTIVITY/PORTS

MARIEL NAVAL BASE AND NAVAL AIR STATION CU 2259N 08244W
OB -- 10 UNIDENTIFIED SMALL NAVAL VESSELS.
OTHER VESSELS -- 2 LARGE FREIGHTERS.

25X1

P-2

SIGUANEA NAVAL BASE CU 2136N 08258W
OB -- NONE OBSERVED.

25X1

NUEVA GERONA PORT CU 2153 08248W
VESSELS -- 1 LARGE FREIGHTER OFFSHORE.

25X1

CARDENAS PORT CU 2302N 08111
VESSELS -- 1 POSSIBLE COASTAL FREIGHTER.

25X1

MATANZAS PORT CU 2302N 08134W
VESSELS -- 2 LARGE FREIGHTERS AND 1 SMALL COASTAL
FREIGHTER.

25X1

SURGIDERO DE BATABANO PORT CU 2241N 08217W
VESSELS -- NONE OBSERVED.

25X1

LA HABANA PORT FACILITIES CU 2307N 08220W
OB -- 1 PF, 1 PCE, 1 KRONSTADT-CLASS PC, 1 S.O.1-CLASS
SC, 4 KOMAR-CLASS PTG, AND 6 P-6-CLASS PT.
OTHER VESSELS -- 19 LARGE FREIGHTERS, 2 LARGE TANKERS,
AND 2 FLOATING DRYDOCKS.

A-3

25X1

BAHIA HONDA PORT CU 2255N 08310W
VESSELS -- NONE OBSERVED.

25X1

PUNTA BALLENATOS MARINA CU 2305N 08230W
OB -- 3 P-4-CLASS PT.

25X1

ELECTRONICS/COMMUNICATIONS

SAN ANTONIO DE LOS BANOS EW/GCI SITE 2 CU 2253N 08230W
OB -- 1 TOKEN-TYPE RADAR AND 3 VAN TRAILERS.

25X1

VARADERO LOW SIEVE RADAR SITE CU 2311N 08108W
OB -- 1 LOW SIEVE RADAR, 2 VAN TRUCKS, AND 3 OTHER
VEHICLES.

25X1

SANTA CRUZ DEL NORTE RADAR SITE CU 2308N 08155W
OB -- 1 TOKEN-TYPE RADAR.
ACTIVITY -- 3 VAN TRAILERS AND 4 VEHICLES/PIECES OF
EQUIPMENT.

P-4

25X1

MILITARY ACTIVITY

ARTEMISA MILITARY CAMP CU 2250N 08248W
OB -- 4 UNIDENTIFIED VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

LA HABANA BARRACKS COJIMAR CU 2309N 08215W
OB -- 110 CARGO TRUCKS, 16 VAN TRUCKS, 20 PROBABLE
TRACKED PRIME MOVERS, AND 46 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTIAGO DE LAS VEGAS MILITARY CAMP CU 2258N 08220W
OB -- 55 CARGO TRUCKS AND NUMEROUS VEHICLES/PIECES OF
EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1

TORREIS MILITARY COMPLEX CU 2259N 08227W
OB -- 25 PROBABLE TANKS/SP GUNS AND 50 OTHER VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

LEAST 66 VEHICLES/PIECES OF EQUIPMENT.

NO APPARENT CHANGE IN FACILITIES.

25X1

CAYO LARGO MILITARY AREA CU 2137N 08133W

OB -- 2 VEHICLES.

NO APPARENT CHANGE IN FACILITIES.

25X1

GUANABACOA MILITARY AREA CU 2307N 08215W

OB -- AT LEAST 68 UNIDENTIFIED VEHICLES.

NO APPARENT CHANGE IN FACILITIES.

25X1

GUANAJAY MILITARY CAMP MARTIN MESA CU 2257N 08243W

OB -- AT LEAST 38 POSSIBLE FA PIECES, 12 POSSIBLE AAA
PIECES, AND AT LEAST 70 UNIDENTIFIED VEHICLES.

NO APPARENT CHANGE IN FACILITIES.

25X1

LA FLORA MILITARY CAMP CU 2252N 08233W

OB -- 41 FA PIECES, 41 BTR 60-P, 61 CARGO TRUCKS, AND
AT LEAST 20 OTHER VEHICLES OBSERVED IN CLOUD-FREE
AREAS.

NO APPARENT CHANGE IN FACILITIES.

25X1

LIMONAR MILITARY CAMP SE CU 2255N 08124W

OB -- NONE OBSERVED.

NO APPARENT CHANGE IN FACILITIES.

25X1

LIMONAR TANK TRAINING AREA CU 2254N 08121W

OB -- 17 TANKS/SP GUNS.

NO APPARENT CHANGE IN FACILITIES.

25X1

LOMAS TETAS DE MANAGUA TANK PARK CU 2258N 08219W

OB -- AT LEAST 33 TANKS/SP GUNS AND 7 CARGO TRUCKS.

NO APPARENT CHANGE IN FACILITIES.

25X1

MANAGUA MILITARY CAMP CU 2258N 08217W

OB -- 12 PROBABLE MISSILE TRANSPORTERS, 44 CARGO
TRUCKS, 8 VAN TRUCKS, AND NUMEROUS OTHER VEHICLES.
ACTIVITY -- 1 HOUND.

NO APPARENT CHANGE IN FACILITIES.

25X1

MARTI ARMOR TRAINING AREA CU 2258N 08059W

OB -- 2 POSSIBLE TANKS/SP GUNS.

NO APPARENT CHANGE IN FACILITIES.

25X1

MINAS MILITARY CAMP JESUS MARIA FINCA CU 2326N 08211W

OB -- AT LEAST 13 VEHICLES/PIECES OF EQUIPMENT.

NO APPARENT CHANGE IN FACILITIES.

25X1

SAN DIEGO DE NUNEZ MILITARY CAMP CU 2254N 08305W

OB -- AT LEAST 15 CARGO TRUCKS AND 10 PROBABLE AAA
PIECES.

NO APPARENT CHANGE IN FACILITIES.

25X1

SAN JOSE DE LAS LAJAS MILITARY ACTIVITY CU 2258N 08212W

OB -- NUMEROUS UNIDENTIFIED VEHICLES.

NO APPARENT CHANGE IN FACILITIES.

25X1

SAN PEDRO MILITARY CAMP CU 2238N 08254W

OB -- NONE OBSERVED.

NO APPARENT CHANGE IN FACILITIES.

25X1

LOMAS TETAS DE MANAGUA MILITARY CAMP CU 2258N 08219W

25X1

CAMPO LIBERTAD VEHICLE PARK CU 2304N 0822W
 OB -- 30 CARGO TRUCKS AND AT LEAST 120 VEHICLES/PIECES
 OF EQUIPMENT.

Pg 3

NO APPARENT CHANGE IN FACILITIES.

25X1

JUNCO MILITARY ACTIVITY CU 2244N 08234W

OB -- NONE OBSERVED.

NO APPARENT CHANGE IN FACILITIES.

25X1

TARARA LANDING BEACH CU 2310N 08211W

NO NEW MILITARY ACTIVITY OBSERVED.

25X1

PENINSULA DE HICACOS LANDING BEACH CU 2311N 08130W
 NO NEW MILITARY ACTIVITY OBSERVED.

25X1

-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

BEJUCAL INTL BROADCASTING FACILITY	2253N 08220W
BAHIA HONDA EW/GCI RADAR SITE	2258N 08311W
BAHIA HONDA EW/GCI RADAR SITE 2	2255N 08312W
LA HABANA RADAR SITE EL MORRO NO 1	2309N 08221W
SPECIAL AREA VERMONT	2301N 08248W
SPECIAL AREA OREGON	2259N 08244W
SPECIAL AREA TEXAS	2302N 08235W
SPECIAL AREA OHIO	2301N 08239W
SPECIAL AREA GREEN	2255N 08242W
MATANZAS LANDING BEACH	2301N 08126W
PLAYA COLOMBO LANDING BEACH	2154N 08246W
PLAYA DE FLAMENCOS LANDING BEACH	2153N 08243W
ENSENADA DE PLAYUELAS LANDING BEACH	2246N 08349W

Pg 4

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

GUANABACOA SAM SITE A14-2	2305N 08216W
LA CATALINA SAM SITE A34-2	2258N 08200W
SANTIAGO DE LAS VEGAS SAM ASSEMBLY AREA	2257N 08221W
SANTA FE SAM SITE	2147N 08250W
EL CHICO SAM TRAINING AREA	2300N 08226W
SIGUANEA CRUISE-MISSILE SITE	2137N 08258W
GUANAJAY CRUISE-MISSILE SITE	2256N 08239W
COLONEL MARTIN MARRERRO AIRFIELD	2150N 08246W
LA HABANA RADAR SITE COJIMAR	2308N 08219W
SAN JULIAN EW/GCI RADAR SITE	2206N 08409W
CABANAS LOW SIEVE RADAR SITE	2259N 08259W
RANCHO BOYEROS MIL TRAINING AREA A CAMP	2300N 08218W
SANTIAGO DE LAS VEGAS MIL CAMP SOUTH	2257N 08223W
BAJURAYABO MILITARY CAMP	2308N 08210W
CAMPO FLORIDO MILITARY CAMP EAST	2307N 08206W
CORRALILLO MILITARY AREA	2301N 08038W
NAZARENO MILITARY CAMP	2257N 08213W
SANTA FE MILITARY CAMP LA CLARITA	2144N 08247W
SANTA FE MILITARY CAMP LUMUMBA	2142N 08249W
SANTA FE MILITARY CAMP EAST	2144N 08244W
SANTA MARIA DEL ROSARIO VEHICLE PARK	2303N 08215W
SAN ANTONIO DE LOS BANOS MILITARY CAMP	2254N 08229W
LA CHARCA MILITARY ACTIVITY	2246N 08036W
SIGUANEA MILITARY ACTIVITY	2137N 08257W
ALQUIZAR MILITARY ACTIVITY	2251N 08234W
FONTANAR MILITARY TRNG - STORAGE AREA	2301N 08224W
EL CANO MILITARY ACTIVITY	2303N 08228W
SPECIAL AREA WHITE	2254N 08232W
SPECIAL AREA PURPLE	2254N 08228W
GANUZA LANDING BEACH	2305N 08030W

Pg 5